

### Picking Up on the Need for Best Practices COLLECTIONS

### WHAT IS ERCC?



A membership organization:

Launched in 2010 by National Center for Electronics Recycling (NCER) &

Northeast Recycling Council (NERC)

- Forum for coordination & info exchange on state electronics recycling laws
- × Voting and Affiliate Members

### **NERC** Northeast Recycling Council



### WHY ERCC?



- × Reduce administrative overlap
- × One-stop shop for information on state laws
- Coordinate data gathering & information sharing
- Formalize joint, non-binding, responses on key implementation issues
- × Unique resources that streamline compliance

# ERCC RECENT PROJECTS

 Developed test Website for manufacturer registrations:
 <u>www.ecycleregistration.org</u>

Electronics Recycling Coordination

- × Joint market share data RFP
- × Performance measures best practices
- × Collection site best practices

# COLLECTOR BEST PRACTICES Electronics Coordination Clearinghouse





## WHO ARE COLLECTORS?



- Many entities: local government sites, non-profit donation centers, retailers, electronics repair stores, others
- × Receive devices from public, sort, & prepare for shipment
- × Number & type vary under state laws



#### **Number of Collection Sites Per State**





#### Why focus on Collectors?

- × May be sole point of contact for consumers
- × Some reports of diversion of valuable items
  - Diverted devices may never get to qualified, certified recyclers
  - Diversion raises costs (less valuable items left), distorts true collection rates, & could lead to environmental harm
- State laws vary on collector requirements

Solution?

*Best Management Practices* baseline for collectors

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- Best Management Practices intended for collection sites accepting electronics from covered entities under state electronics recycling laws
- May also be used by collection sites outside of state programs



#### **Collector Definition:**

- Entity offering site for receiving &/or consolidating electronics prior to sending to recyclers or consolidators.
- × A collector is *not* involved in the disassembly, demanufacture, or recycling of electronics.
  - + However, some consolidators, transporters, & recyclers may also offer collection sites.

### Best Management Practice Standards



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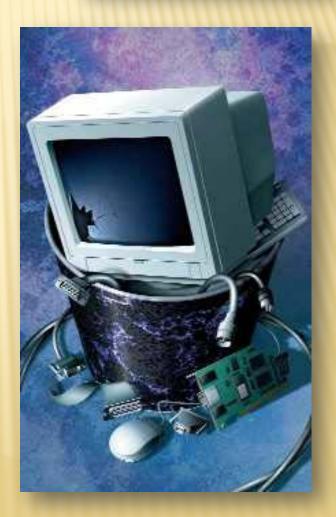


Compliance

- Comply with all legal requirements—*not* limited to environmental, health, & safety requirements.
- Se willing to disclose fines & notices of violation to upstream/downstream partners.

Disposal

 No landfilling or incineration of whole electronics—both covered & non-covered items.



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### **On-site Practices**

- × Staff the site during operating hours.
- × Provide enclosed storage.
- Handle & store electronics to minimize breakage

Adhere to good
 housekeeping
 standards.



### **On-site Practices**

- × Label storage containers
- Label containers with predominant device type
- Train employees on proper handling & emergency procedures



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- Ship all items collected in original form & without missing components
  - +Do not disassemble, dismantle, shred, transform, or demanufacture electronics.
- Ensure safe stacking & packaging practices

On-site Practices *Computers & Laptops*



**Pallets:** 

- Place computer towers & laptops on pallets
- Shrink-wrap stack (height of 5-7')
- Protect laptops with separate cardboard boxes, & put with computers

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 Use enough shrink wrap to ensure will not topple over

**Gaylords:** 

- Place units carefully, stacking efficiently
- Reinforce with shrink-wrap as needed
- Must be placed on pallets



#### **On-site Practices**

- × Monitors
- Place with screen facing down on pallets with cardboard between layers
- Largest units on bottom & to outside edges of pallet, & interlock units as possible
- Keep flat screen units upright, with screen facing inward
- Apply enough shrink wrap to ensure will not topple over
- Use caution when lowering units into a Gaylord
- Gaylords must be placed on pallets





#### **On-site Practices**

× Television Sets



- Palletize uniform sized TV's together, with screens facing down on pallets with cardboard between layers
- Place flat screen units upright, with screen facing inward
- Place console televisions on lowest level of pallet with other units on top or around
  - Use enough shrink wrap to secure units & prevent toppling

### **Data & Reporting**

- Document period of accumulation.
  +Up to three years
- Maintain bills of lading & documentation with # of containers delivered & approximate weight of each shipment.

If reuse, document
 # of units/weight
 diverted.

#### BILL TO: 0283909

Oregon SCP National Center for Electronics Recycling 115 Rosemar Rd, Suite 1 Parkersburg, WV 26104

#### SHIP FROM: 3rd Party Collector

SCP Collector #: 131 Waste-Pro Transfer Station 541-963-5459 Bill of Lading

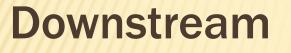
Bill of Lading #: SCP1612 Date: 8/4/2010

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#### SHIP TO: 0283910

SCP Recycler #:129 IMS Electronics Recycling, Inc. 360-750-8883



- \* Only send electronics to R2 or e-Steward certified recyclers
- Send all electronics to certified recycler or authorized consolidator without diverting any quantities or types of electronics to other vendors, brokers, recyclers, or other entities

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How can best practices & strategies developed by the Electronics Recycling Coordination Clearinghouse be incorporated into e-scrap collection programs?





COLLECTOR BEST PRACTICES **Suggestions for Implementation:** × Self-declaration from collector? × Pledge or written declaration? +No audit process for either of these +Perhaps a good first step Need database to store info on declared collectors



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### **Options for Implementation:**

- **×** Recycler Verification
  - Recyclers would verify that collectors they are receiving materials from use best practices
  - + Not true third party verification/audit
  - + Some recyclers have little direct contact with collectors i.e. 3<sup>rd</sup> party transport used



**Options for Implementation:** 

- × Manufacturer commitment
  - + Manufacturer would agree to only use collectors who follow these guidelines





#### Options for Implementation: \* "Standard" or certification program + Viable for all collectors, even small ones? + Consistency with other state permits?







- **Options for Implementation:**
- State legislative revisions
- Some states already building into regulations/guidance

THE SENATE TWENTY-FOURTH LEGISLATURE, 2008 STATE OF HAWAII S.B. NO. 2843 S.D. 2 H.D. 3 C.D. 1

#### A BILL FOR AN ACT

RELATING TO ELECTRONIC DEVICE RECYCLING.

#### BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

- 1 SECTION 1. Available estimates suggest that over
- 2 100,000,000 computers, monitors, and televisions become obsolete
- 3 each year, and this number is growing. If improperly managed,
- 4 these used electronics can harm the environment and human



### Thank you!

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View Collector Best Practices Document at: www.ecycleclearinghouse.org

### **ADDITIONAL ERCC DETAILS**

### FOUNDING MEMBERS





Recycle America













SIMS RECYCLING









S ELECTRONICS RECYCLING











### **2011 ERCC MEMBERS**



- × CalRecycle
- × Connecticut DEEP
- × Hawaii DOH
- × Illinois EPA
- × Indiana DEM
- × Maine DEP
- × Minnesota PCA

- × New Jersey DEP
- × New York DEC
- × North Carolina DENR
- × Oregon DEQ
- × Pennsylvania DEP
- **×** South Carolina DHEC
- × Vermont DEC
- × Wisconsin DNR

### **2011 ERCC MEMBERS**

AFFILIATE MEMBERS:

- × Arrow-Intechra
- × Best Buy
- Brother International
- Consumer Electronics Association
- × Dell
- × ecoATM
- × ECS Refining
- × Electronic Recyclers International
- × Funai
- × IMS Electronics Association
- × Orion America, Inc.

× PA Recycling Markets Center

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- R2 Solutions
- Rhode Island Resource Recovery Corporation
- × Samsung
- × Sims Recycling Solutions
- Technology Conservation Group
- Waste Management Recycle America
- WeRecycle! LLC